# 2 - 2
# Work With Measurements

# measurement conversions

**The larger unit gets the smaller number**

Ex:   2 ft  =  24 in

"feet" are larger than "inches"
2 is smaller than 24

This lets you know
whether to x or ÷

**Ex:** $\overset{S}{1}0\ \overset{B}{m} = \underline{1,\overset{B}{0}00}\ \overset{S}{cm}$

$100\ cm = 1\ m$

$10\ \textcircled{x}\ 100 = 1,000$

**Ex:** $\overset{B}{4}0\ \overset{S}{cm} = \underline{\quad.\overset{S}{4}\quad}\ \overset{B}{m}$

$40 \div 100 = .4$

**Ex:** $\overset{S}{2}\ \overset{B}{m} = \underline{2,\overset{B}{0}00}\ \overset{S}{mm}$

$2 \times 1000 = 2,000$

**Ex:** 3500 mm = _3.5_ m

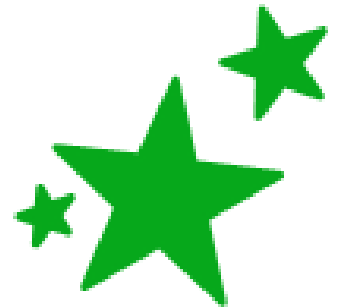$$3500 \div 1000 = 3.5$$

**Ex:** $\frac{3}{4}$ ft = _9_ in
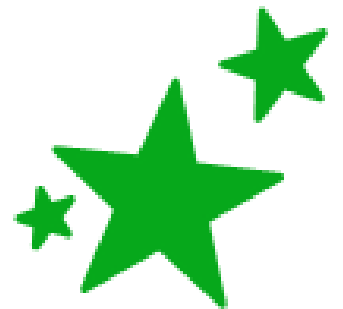
$$\frac{3}{4} \times 12 = 9$$

**Ex:** 29 qt = _7.25_ gal    7 gal 1 qt

$$29 \div 4 = 7.25$$

**Ex:** I have a dress pattern that calls for 7 yd of lace, but I already have 4 ft. How much lace do I need to buy?

$$\overset{S}{7}\overset{B}{yd} = \underline{\overset{B}{21}}\ \overset{S}{ft}$$

$$7 \times 3 = 21$$

$$21 - 4 = \boxed{17\ ft}$$

$$17 \div 3 = 5.666\ldots$$
$$= 5\tfrac{2}{3}\ yd\ \boxed{5\ yd\ 2\ ft}$$

**Calculate.**

Ex:    3 lb  9 oz
   + 1 lb  9 oz

   4 lb  18 oz.
              16

   5 lb  2 oz.

## Calculate.

Ex:    $\overset{7}{\cancel{8}}$ gal $\overset{5}{\cancel{1}}$ qt
－ **6 gal  2 qt**

$\boxed{\text{1 gal } 3 \text{ qt}}$

**Calculate.**

Ex:    3 (4 ft  9 in)

12 ft  27 in
        24

$\boxed{14 \text{ ft } 3 \text{ in}}$
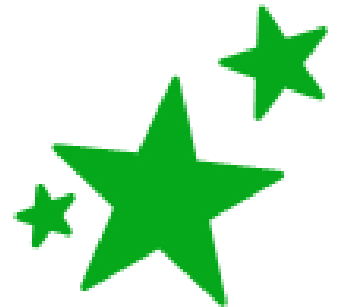
## Calculate.

Ex: $5L \div 8 = \underline{625}$ mL

(over the 5L: 5000 mL)

$5 L = \underline{5000}$ mL

$5 \times 1000 = 5000$
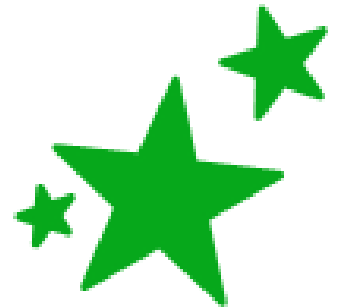
Homework:

p. 58  #17 - 27 odd, 34 - 37